

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

December 18, 2014

Medivance, Inc. % Stacci Cronk Senior Regulatory Specialist 321 South Taylor Avenue Suite 200 Louisville, Colorado 80027

Re: K142702

Trade/Device Name: Arctic Sun Temperature Management System, ArcticGel Pads

(Universal, XXS, XS, S, M and L), Small Universal ArcticGel Pad,

Neonatal ArcticGel Pad

Regulation Number: 21 CFR 870.5900

Regulation Name: Thermal Regulating System

Regulatory Class: Class II

Product Code: DWJ

Dated: November 26, 2014 Received: November 28, 2014

Dear Stacci Cronk,

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

for

Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

M& Willeleman

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

510(k) Number:	K142702				
Device Name:	Arctic (includin	Sun [®] g the Arc	Temperature ticGel™ pads)	Management	System
Indications for Use:	The Arctic Sun [®] Temperature Management System is a thermal regulating system, indicated for monitoring and controlling patient temperature in adult and pediatric patients of all ages.				
Prescription Use: ⊠	or		Over the Cou	nter Use 🗌	
(PLEASE DO NOT WRITE BELOW	THIS LIN	E-CONT	INUE ON ANOT	HER PAGE IF N	EEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)					

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Section 5: 510(k) Summary

The following information is provided as required by 21 CFR §807.92 for the Arctic Sun® Temperature Management System 510(k) premarket notification. In response to the Safe Medical Devices Act of 1990, the following is a summary of the safety and effectiveness information upon which the substantial equivalence determination is based.

Sponsor: Medivance, Inc.

A wholly owned subsidiary of C. R. BARD, Inc.

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Contact: Stacci Cronk, RAC

Senior Regulatory Affairs Specialist

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E-mail: stacci.cronk@crbard.com

Date Prepared: September 19, 2014

Trade Name: Arctic Sun® Temperature Management System

(including the ArcticGel™ pads)

Common/Usual Name: patient temperature management system

Classification Name: system, thermal regulating

Regulation: 21 CFR §870.5900

Classification: II
Product Code: DWJ

Predicate Device(s):

Arctic Sun® Temperature Management System

(including the Arctic Column and a) Medivance, Inc.

K101092

(including the ArcticGel™ pads) Wedivance, Inc. K002577

Medi-Therm® Hyper/Hypothermia System

(including Hyper/Hypothermia blanket(s)/body Gaymar Industries Inc. K100585

wrap(s))

Device Description: The Arctic Sun Temperature Management System is a non-invasive, thermal regulating system that monitors and controls patient temperature within a range of 32°C to 38.5°C (89.6°F to 101.3°F). The Arctic Sun Temperature Management System consists of the Arctic Sun 5000 Control Module and disposable non-sterile ArcticGel Pads. The control module re-circulates temperature-controlled water to the ArcticGel Pads. A commercially-available medical temperature probe, such as naso-pharyngeal, bladder, rectal, or esophageal, connected to the control module senses the patient's core temperature. A control algorithm automatically adjusts the water temperature (automatic mode) or the clinician can adjust the water temperature (manual mode) to obtain the desired patient temperature.

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The ArcticGel Pads come in various sizes to cover a broad range of patients and fit both males and females. Each pad has an inlet and an outlet connection that attaches to a fluid delivery line that is connected to the Arctic Sun 5000 Control Module. Up to six pads can be connected at one time. The pads adhere to the patient by the use of a biocompatible hydrogel adhesive

The Small Universal ArcticGel Pad and Neonatal ArcticGel Pad are modified versions of the current ArcticGel Pads and utilize an additional patient contacting fabric material.

Indications for Use: The Arctic Sun Temperature Management System is a thermal regulating system, indicated for monitoring and controlling patient temperature in adult and pediatric patients of all ages.

Substantial Equivalence: The Arctic Sun Temperature Management System (Arctic Sun 5000 Control Module and ArcticGel Pads) was shown to be substantially equivalent in indications for use, design, technological characteristics, materials and system features and functions to the predicate devices.

The Arctic Sun Temperature Management System (Arctic Sun 5000 Control Module and ArcticGel Pads) proposed Indications for Use is the same as the predicate Arctic Sun Temperature Management System with the addition of a defined patient population. The predicate Medi-Therm Hyper/Hypothermia System Indications for Use contains the proposed "adult and pediatric patients" verbiage.

The Small Universal ArcticGel Pad, Neonatal ArcticGel Pad and the predicate ArcticGel Pads and Gaymar Blankets are noninvasive surface temperature management devices. Additionally, the Small Universal and Neonatal ArcticGel Pads and the predicate ArcticGel Pads may be used in with the Arctic Sun Temperature Management System for use in continuous patient temperature monitoring and control.

The Small Universal ArcticGel Pad, Neonatal ArcticGel Pad and the predicate devices are manufactured from common biocompatible materials that are common to many disposable medical devices.

The Small Universal ArcticGel Pad, Neonatal ArcticGel Pad and the predicate devices are of similar sizes and weights, and provide similar cooling capacities and durations.

Biocompatibility and Performance Testing:

Biocompatibility testing performed in accordance with ISO 10993-1, 10993-05 and 10993-10 demonstrated the fabric material used on Small Universal ArcticGel Pad and Neonatal ArcticGel Pad to be non-cytotoxic, non-irritating and nonsensitizing.

Comparative performance testing demonstrated that the performance of the Small Universal ArcticGel Pad and Neonatal ArcticGel Pad is substantially equivalent to that of the predicate devices.

Conclusions: Based on the testing and comparison to the predicate devices, the Arctic Sun Temperature Management System (Arctic Sun 5000 Console and ArcticGel Pads) performs as intended, raises no new safety or effectiveness issues and is substantially equivalent to the predicate devices.